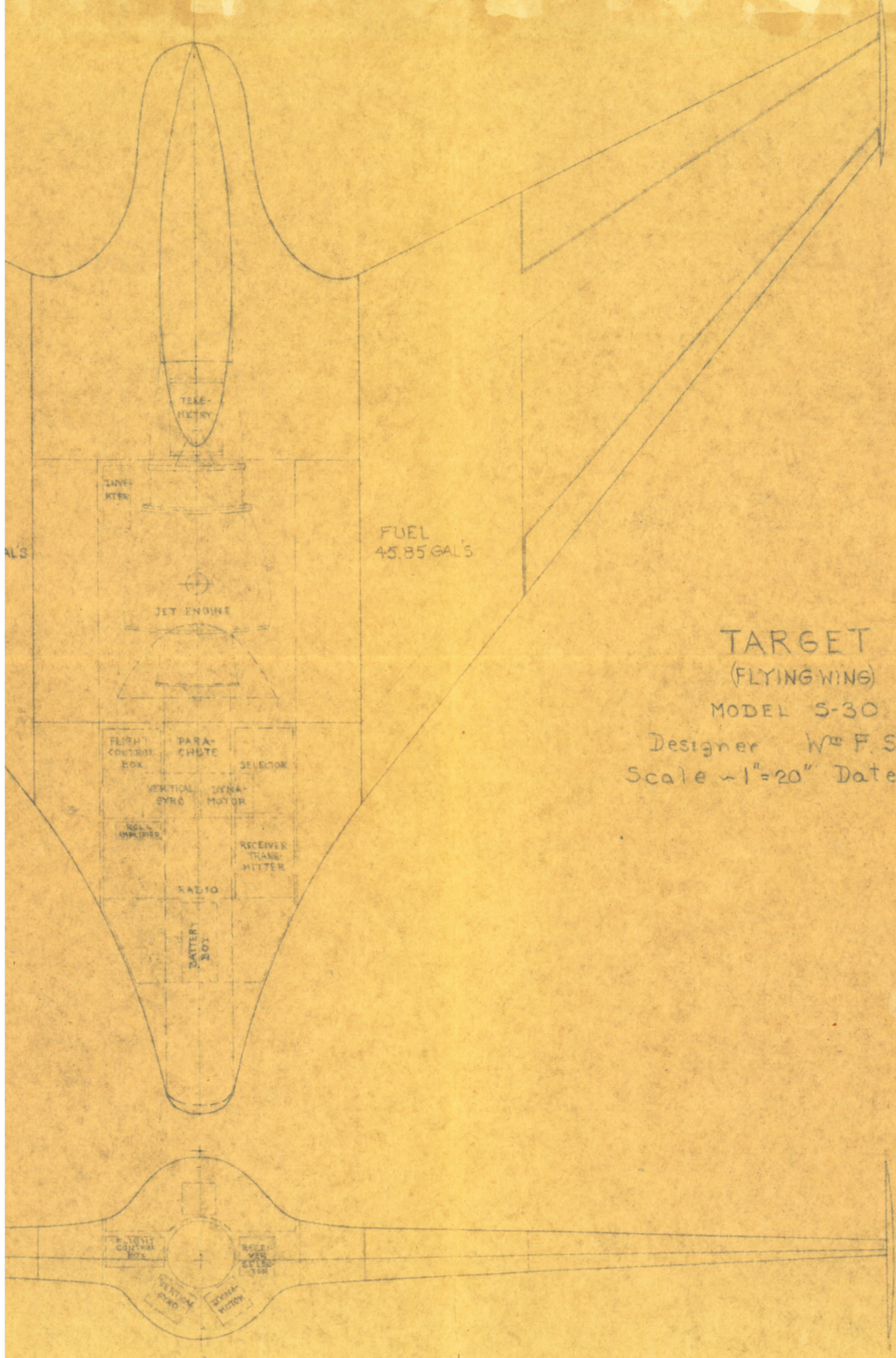


TARGET
(FLYING WING)
MODEL S-30
Designer Wm F. Schult
Scale ~ 1"=20" Date 2-11-58

~ DIMENSIONS ~

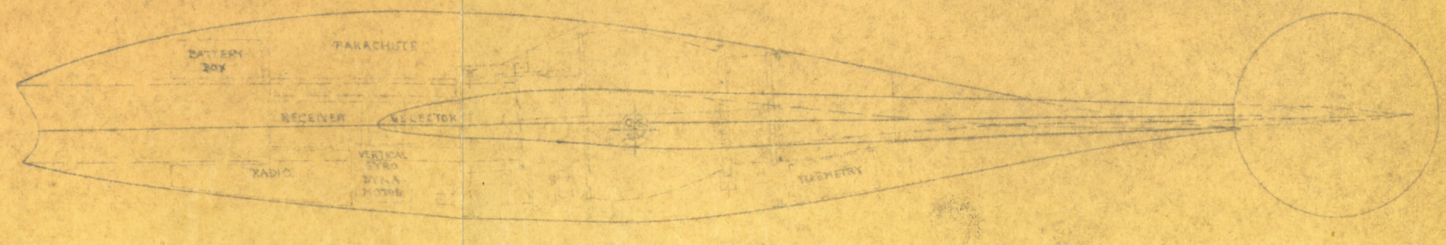
SPAN	(Dihedral 1°, Washout Tip 0°)	B =	210.00"	17.50'
CHORD	(Root, Lay-out = 100") (Sect. 65-.216) Actual	C_R =	170.00"	14.16'
"	(M.A.C.) Section 65-.209 Special	C_{MAC} =	68.89"	5.74'
"	(Tip) " 65-.209 Special	C_T =	20.00"	1.66'
HEIGHT		H =	27.20"	2.266'
AREA	(Basic Wing) A = 3.5, Sweep 47½°, Taper 20	S_W =	12,620.00 □"	87.60 □'
"	(Fins) 576 □" × 2	S_F =	1152.00 □"	8.00 □'

~ WEIGHT ~

EMPTY	=	1199.80#
WING GROUP	=	427.60#
PROPULSION GROUP	=	463.90#
EQUIPMENT (Inst., Elec., Electronics, Aux.)	=	313.30#
USEFULL LOAD	=	603.50#
FUEL (91.7 Gals @ 6.5#/Gal.)	=	596.00#
OIL (1. Ga). @ 7.5#/Gal.)	=	7.50#
GROSS WEIGHT	=	1803.30#

~ PERFORMANCE ~

POWER Marbore J-69-T-19A Jet Engine Static Thrust = 1000.#

ALTITUDE'	$V_{min.}$ N.M./Hr.	$V_{max.}$ N.M./Hr.	CLIMB'/min.	TIME to ALT. min.	RANGE N.M.
15,000. (Launch)	100.	586.	7020.	0.	
45,000.		545.	2880.	5.91	705.
50,000.		542.	1793.	8.11	905.
60,000.		509.	220.	21.46	1581.

Note: (1) Performance is based on Initial Gross Weight of 2000.# since all airplanes increase in weight when built. Also variation in performance due to fuel used is taken into account.
(2) Velocity in climb is constant at 500. N.M./HR. at all altitudes.